

SECTION 614 RETAINING WALLS

614.01 DESCRIPTION. This work is constructing concrete and metal bin-type retaining walls.

614.02 MATERIALS. Furnish materials meeting the following requirements:

Concrete	Section 551
Reinforcing Steel	Subsection 711.01
Metal Bin-Type Retaining Walls	Subsection 711.21
Backfill For Metal Bin-Type Retaining Walls ...	Subsection 701.09

614.03 CONSTRUCTION REQUIREMENTS.

614.03.1 Foundations. Excavate and prepare foundations for concrete retaining walls meeting the applicable requirements of Subsection 209.03.

Construct metal bin-type retaining wall foundations to the established lines and grades and compact meeting Subsection 203.03.3 requirements.

The Project Manager will inspect and approve all foundations before subsequent work.

614.03.2 Concrete Retaining Walls. Construct concrete retaining walls as specified in the Contract. Perform concrete work meeting the applicable requirements of Section 552.

Remove all deleterious material from the footings before placing concrete. Prepare the footing surface meeting the requirements for bonding construction joints in Subsection 552.03.7. Make vertical construction joints as specified in Subsection 552.03.7.

614.03.3 Bin-Type Retaining Walls. Assemble the wall parts following the wall manufacturer's recommendations.

If approved, the wall height and depth may be varied but can not exceed the maximum dimension shown.

Two or more retaining wall designs may be used in the same wall using standard split columns to make the stepback connection.

614.03.4 Backfill.

A. Concrete Structures. Furnish the backfill material specified in the Contract. Place backfill as specified in Subsection 203.03.2(B).

B. Metal Bin-Type Retaining Walls. Follow the manufacturer's recommendations for placing and compacting backfill material. If no recommendations are made, bring the backfill up equally inside and outside the bins as follows:

For backfill material outside the bins, use roadway excavation and place it as specified in Subsection 203.03.2(B).

Furnish backfill material for inside the bins meeting Subsection 701.09 requirements.

Place the backfill in 8-inch (205 mm) maximum compacted lifts, completely filling in all corrugations. Compact backfill as specified in Subsection 203.03.3. Hollow sounding corrugations in the bin wall face detected by the Inspector is cause to remove, replace, and re-compact the backfill at Contractor expense.

614.04 METHOD OF MEASUREMENT.

614.04.1 Concrete. Concrete is measured by the cubic yard (cubic meter) under Subsection 552.04.

614.04.2 Reinforcing Steel. Reinforcing steel is measured by the pound (kilogram) under Subsection 555.04.

614.04.3 Metal Retaining Walls. Metal bin-type retaining walls are measured by the nominal square foot (square meter) of facial area of wall.

614.05 BASIS OF PAYMENT. Payment for the completed and accepted quantities is made as follows:

<u>Pay Item</u>	<u>Pay Unit</u>
Concrete	Cubic Yard (cubic meter)
Reinforcing Steel	Pound (kilogram)
Metal Retaining Wall	Square Foot (square meter)

Payment at the contract unit price is full compensation for all resources necessary to complete the item of work under the Contract.